

**L & G Consulting Engineers Inc**  
**2100 W. Expressway 83**  
**Mercedes, TX 78570**  
**(956)565-9813 Fax (956)565-9018**

**INVOICE#:** 11327330  
**INVOICE DATE:** 1/2/2019

**BILL TO: 34**

Hidalgo County Pct. #1  
 902 Joe Stephens  
 Weslaco, TX 78599

**JOB: 180501**

Mile 6 Project WA#1  
 PO# 784887  
 (From: Mile 11 to SH107)

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
<b>Engineering services for the month of December 2018.</b>						
Work Authorization #1 - Re-Evaluation Document, Public Involvement, Schematic and Hydrologic Design						
10206-Feasibility	30,000.00	30,000.00		30,000.00	100.0	-
11002-Schm Roadway	180,000.00	54,000.00	14,400.00	68,400.00	38.0	111,600.00
11005-Dsgn Schm Outfall	180,000.00	37,800.00	14,400.00	52,200.00	29.0	127,800.00
11007-Schm Rdwy TxDOT	45,000.00	2,250.00	2,250.00	4,500.00	10.0	40,500.00
11009-Pr1 ROW Outfall	90,000.00	22,500.00	7,200.00	29,700.00	33.0	60,300.00
12001-EA Reports	86,400.00	12,960.00	6,912.00	19,872.00	23.0	66,528.00
12002-Pub Invmt (PM)	43,200.00	3,456.00		3,456.00	8.0	39,744.00
12007-Arch & Hist	10,166.40	203.33		203.33	2.0	9,963.07
12008-Eng/Pub Mtgs	36,000.00	3,600.00	2,880.00	6,480.00	18.0	29,520.00
12070-Arch & Hist/SUB	27,333.60			0.00	0.0	27,333.60
15007-Sub-Surfc Util	208,210.00	208,210.00		208,210.00	100.0	-
15008-Field Srvy Out	209,940.00	209,431.00		209,431.00	99.8	509.00
15070-SubSurface Eng	10,540.00			0.00	0.0	10,540.00
15080-Field Srvy/SUB	245,060.00			0.00	0.0	245,060.00
16101-Hydro Map	90,000.00	16,200.00	6,300.00	22,500.00	25.0	67,500.00
16204-Signal Warrant	8,240.56	659.24	1,400.90	2,060.14	25.0	6,180.42
16206-Trfc Prjetns	18,288.72	18,288.72		18,288.72	100.0	-
16240-Signl Wrnts/SUB	65,759.44		53,731.53	53,731.53	81.7	12,027.91
16260-Trfc Prj/SUB	21,711.28	19,711.28		19,711.28	90.8	2,000.00
Sub Total	1,605,850.00	639,269.57	109,474.43	748,744.00		857,106.00
Supplemental #1 to Work Authorization #1 - Revised Scope of Work						
10206-Feasibility	-30,000.00	-30,000.00		-30,000.00	100.0	-
10211-Pre Engineering	30,000.00	9,000.00	2,400.00	11,400.00	38.0	18,600.00
11005-Dsgn Schm Outfall	177,940.00	17,794.00	14,235.20	32,029.20	18.0	145,910.80
15007-Sub-Surf Util	-187,389.00	-187,389.00		-187,389.00	100.0	-
15008-Field Srvy Out	-177,940.00	-177,940.00		-177,940.00	100.0	-
16403-ProjectMngmnt	187,389.00	50,595.03	14,991.12	65,586.15	35.0	121,802.85
Sub Total	0.00	-317,939.97	31,626.32	-286,313.65		286,313.65
<b>TOTAL:</b>	<b>1,605,850.00</b>	<b>321,329.60</b>	<b>141,100.75</b>	<b>462,430.35</b>	<b>28.8</b>	<b>1,143,419.65</b>

ORIGINAL CONTRACT SUM	\$	1,605,850.00
CHANGE BY CHANGE ORDER	\$	0.00
CONTRACT SUM TO DATE	\$	1,605,850.00
TOTAL COMPLETED TO DATE	\$	462,430.35
LESS PREVIOUS INVOICES	\$	321,329.60
CURRENT PAYMENT DUE	\$	141,100.75

*Marisela G. Maurer*  
 PROJECT MANAGER'S SIGNATURE  
 For: *Jacinto Garza*

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***ERGONOMIC TRANSPORTATION SOLUTIONS, INC.***

*5300 Hollister, Suite 220*

*Houston, Texas 77040*

*Tel. (713) 956-9601*

*Fax: (713) 956-9667*

December 31, 2018

Mr. Jacinto Garza, P.E.,  
President  
L & G Engineering  
2100 W. Expressway 83  
Mercedes, Texas 78570

Reference: Invoice no. 2018-17-1 – Traffic Signal and Multi-Way Stop Control Warrant Studies at ten intersections along Mile 6 West Road; in Precinct 1, Hidalgo County, Texas; WA #30

Dear Jacinto:

Attached for your handling is our invoice no. 2018-17-1, for services provided in conjunction with the above referenced project. It reflects our effort from November 1, 2018 to December 31, 2018.

Please let me know if you need additional information. Thank you for the opportunity to assist you with this project.

Sincerely,



Harry C. Simeonidis, P.E.

Attachments

**ERGONOMIC TRANSPORTATION SOLUTIONS, INC.**

**INVOICE**

5300 Hollister, Suite 220  
 Houston, Texas 77040  
 Tel. (713) 956-9601  
 Fax (713) 956-9667  
 TAX ID: 76-0583436

INVOICE NUMBER: 2017-18-2  
 INVOICE DATE: 12/31/2018  
 FOR SERVICES PROVIDED FROM: 11/1/2018  
 TO: 12/31/2018

**TO:**  
 Mr. Jacinto Garza, P.E.  
 President  
 L & G Engineering  
 2100 W. Expressway 83  
 Mercedes, Texas 78570

**PROJECT NAME:**  
 TRAFFIC SIGNAL AND  
 MULTI STOP CONTROL WARRANT STUDY  
 TEN INTERSECTIONS ALONG MILE 6 WEST  
 PRECINCT 1, HIDALGO COUNTY, TEXAS

TASK NO.	DESCRIPTION OF SERVICES PROVIDED	% COMPLETE	TOTAL FEE	AMOUNT EARNED
1	Collect Data and Conduct Field Investigations	90.00	\$4,082.36	\$3,674.12
2	Assess Collected Data	100.00	\$2,041.82	\$2,041.82
3	Accident Analyses	0.00	\$6,087.56	\$0.00
4	Collision Diagrams	0.00	\$3,759.97	\$0.00
5	Intersection Exhibits	100.00	\$3,759.97	\$3,759.97
6	Traffic Signal & Multi-Way Stop Control Warrant Analyses	100.00	\$19,635.38	\$19,635.38
7	Photo Album	80.00	\$1,372.78	\$1,098.22
8	Recommendations	100.00	\$3,043.78	\$3,043.78
9	Study Report	90.00	\$14,025.82	\$12,623.24
	<u>Expenses:</u>			
	Travel	90.00	\$950.00	\$855.00
	Traffic Counts (Outsourced)	100.00	\$7,000.00	\$7,000.00
	Total	81.71%	\$65,759.44	\$53,731.53
Amount Invoiced Previously				\$0.00
Total Due this Invoice				\$53,731.53

**PLEASE MAKE CHECKS PAYABLE TO:**  
 Ergonomic Transportation Solutions, Inc.  
 Attn: Harry Simeonidis  
 P.O. Box 926333  
 Houston, TX 77292-6333

**THANK YOU FOR GIVING US THE OPPORTUNITY TO SERVE YOU**

TRAFFIC SIGNAL AND MULTI-WAY STOP CONTROL WARRANT STUDIES  
MILE 6 WEST ROAD: FROM MILE 12 WEST ROAD TO SH 107  
PROGRESS REPORT AS OF DECEMBER 31, 2018

ETSI's work progress this period can be summarized as follows:

**TASK 1 – Field Investigation and Data Collection (90% Complete)**

- Substantially Completed

**TASK 2 – Assessment of collected data (100% Complete)**

- Completed

**TASK 3 – Accident Data and Analysis (0% Complete)**

- Pending

**TASK 4 – Collision Diagrams (0% Complete)**

- Pending

**TASK 5 – Intersection Exhibits (100% Complete)**

- Completed

**TASK 6 – Warrant Analyses (100% Complete)**

- Completed

**TASK 7 – Photo Album (80% Complete)**

- Substantially Completed

**TASK 8 - Recommendations (100% Complete)**

- Completed

**TASK 9 – Warrant Study Report (90% Complete)**

- Draft Report Completed

**PENDING ISSUES:**

- Missing Accident records. L&G to assist in obtaining records from local authorities





January 2, 2019

Hon. David Fuentes  
Hidalgo County Commissioner, Pct. #1  
**Attn: Amy Saenz-Smith or Erica Espinoza**  
1902 Joe Stevens  
Weslaco, TX 78596

**RE: Mile 6 Project – WA#1**  
**Limits: Mile 11 to SH 107**  
**PO#784887 - L&G Project#180501**

Dear Commissioner Fuentes:

We are submitting a monthly progress report in sufficient detail to support the progress of the work and in support of a request for payment. Attached for your approval is our invoice for services rendered during the month of December 2018.

The following is attached:

- L & G's Invoice (and sub consultant invoice, if applicable)
- Exhibit C – Work Schedule

**Work Authorization#1 – Engineering services required for the preparation of the Re-Evaluation Document, Public Involvement, Schematic and Hydrologic Design**

		<b>% Complete</b>
<b>FC 10206 – DETERMINE LOCAL COSTS vs STATE COSTS / FEASIBILITY STUDY and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work and removes this scope.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11002 – SCHEMATIC FOR ROADWAY</b>		
L&G continues to update schematic based on changing existing conditions. L&G has modified schematic to address the following intersection improvements: <ul style="list-style-type: none"> <li>• Left turn lanes (east &amp; west) will be added @ Mile 12, Mile 13, Mile 14, and Mile 14 ½ intersections.</li> <li>• Left turn lanes (east only) will be added @ Mile 15, Mile 15 ½ and Mile 16.</li> </ul> Left turn lanes will not be added @ Mile 12 ½ and Mile 13 ½ intersections.	<b>L&amp;G</b>	<b>38%</b>

<b>FC 11005 – SCHEMATIC FOR OUTFALLS</b>		
<p>L&amp;G has developed preliminary schematics (25%) for each of the nine outfalls on the project that include the following:</p> <ul style="list-style-type: none"> <li>• developed chains (horizontal alignments) along all nine (9) outfalls</li> <li>• LIDAR information has been generated for all nine outfalls based on shape files. Depths of ditches are based on LIDAR information.</li> <li>• Existing ROW based on Carson Maps and/or HCCID#9 information and proposed ROW based on HCDD#1 criteria has been established for all outfalls.</li> </ul> <p>L&amp;G has scheduled all outfalls for data collection via drone in order to check validity of LIDAR information as well as updating visual imagery. This task should be complete by January 2019.</p>	<b>L&amp;G</b>	<b>29%</b>
<b>FC 11007 – UPDATE SCHEMATIC BASED ON COMMENTS AS PROVIDED BY TxDOT / FHWA &amp; EA UPDATE</b>		
<p><b>No change from prior invoice</b> L&amp;G has presented to TxDOT our initial schematic of the Roadway and we are continuing to update and refine the roadway schematic as well as develop the outfall schematics.</p>	<b>L&amp;G</b>	<b>10%</b>
<b>FC 11009 – OFFICE SURVEYS FOR SCHEMATIC (PRELIMINARY OWNER IDENTIFIED AND COMP. PROPERTY RIGHTS, ROADWAY &amp; OUTFALLS</b>		
<p>Property owners are being mapped and identified on the proposed roadway, and the revised intersections as well as on the proposed outfalls. This information is based on the appraisal district records and preliminary research of deeds.</p>	<b>L&amp;G</b>	<b>33%</b>
<b>FC 12001 – Re-EVALUATION OF ENVIRONMENTAL DOCUMENT WITH TxDOT</b>		
<p>L&amp;G obtained the AJD from USACE on 12/14/18; no permits will be required. L&amp;G continues to review the schematics in anticipation of preparation of the re-evaluation.</p>	<b>L&amp;G</b>	<b>23%</b>
<b>FC 12002 – PUBLIC INVOLVEMENT FOR THE PROJECT WITH STAKEHOLDERS</b>		
<p><b>No change from prior invoice</b> L&amp;G has begun to prepare the Notice to Comment letters to all of the newly affected property owners to inform them of the changes to the project since the public meetings/hearings previously held.</p>	<b>L&amp;G</b>	<b>8%</b>
<b>FC 12007 – ARCHEOLOGICAL AND HISTORICAL RESEARCH</b>		
<p><b>No change from prior invoice</b> L&amp;G is coordinating with the Sub-Consultant to schedule the necessary surveys for the project.</p>	<b>L&amp;G</b>	<b>2%</b>

<b>FC 12008 – ENGINEERING TECHNICAL SUPPORT FOR LIMITED PUBLIC INVOLVEMENT</b>		
<b>No change from prior invoice</b> Several Schematics have been developed and used at Presentations with TxDOT, HCDD#1, the City(s) of Weslaco, Elsa and Edcouch as well as the HCMPO. These maps are continuously being updated.	<b>L&amp;G</b>	<b>18%</b>
<b>FC 12070 – ARCHEOLOGICAL AND HISTORICAL RESEARCH / SUB</b>		
<b>This task has not begun</b>	<b>AmaTerra</b>	<b>0%</b>
<b>FC 15007 – SUB-SURFACE UTILTIY ENGINEERING (SUE) 25 POT HOLES / MILE (ROADWAY AND OUTFALLS)</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b> We have completed the sub-contracts with Alfonso Quintanilla and have provided his office with our existing digital files. We are plotting and researching the various utilities within the project.	<b>L&amp;G</b>	<b>100%</b>
<b>FC 15008 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY AND 9 OUTFALLS</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b> We have completed the sub-contracts with Alfonso Quintanilla and have provided his office with our existing digital files. All of the H&V Control is being gathered and coordination with the surveyor is on-going.	<b>L&amp;G</b>	<b>99.8%</b>
<b>FC 15070 - SUB-SURFACE UTILITY ENGINEERING (SUE) 25 POT HOLES / MILE (ROADWAY AND OUTFALLS) / SUB</b>		
<b>This task has not begun.</b>	<b>QUINTANILLA</b>	<b>0%</b>
<b>FC 15080 - FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY AND 9 OUTFALLS / SUB</b>		
<b>This task has not begun.</b>	<b>QUINTANILLA</b>	<b>0%</b>
<b>FC 16101 – HYDROLOGICAL MAP FOR OUTFALL DRAIN DITCHES (OUTFALL AND CAPACITIES)</b>		
L&G has updated preliminary Hydrologic Map based on comments received at meetings with the various Cities and TxDOT.	<b>L&amp;G</b>	<b>25%</b>

<b>FC 16204 – TRAFFIC SIGNAL RE-WARRANTS AND MULTIWAY STOP CONTROL WARRANT STUDIES</b>		
<b>No change from prior invoice</b> Contract was generated with Sub ETSI and scope of services was identified. ETSI was provided with a preliminary schematic and digital file for their reference. L&G has received Subs 80% submittal and has begun reviewing the study.	<b>L&amp;G</b>	<b>25%</b>
<b>FC 16206 – TRAFFIC COUNT PROJECTIONS FOR 20-YRS FOR SCHEMATICS</b>		
Contract was generated with Sub C&M and scope of services was identified. C&M was provided with Traffic Data from adjacent section for their reference. C&M has now completed their traffic analysis and submitted to L&G for review. L&G has reviewed and routed this data to TxDOT for further handling. <b>This task is now complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16240 - TRAFFIC SIGNAL RE-WARRANTS AND MULTIWAY STOP CONTROL WARRANT STUDIES / SUB</b>		
ETSI (Sub) is approximately 80% complete with their Traffic Signal and Multi-Way Stop Control Warrant Studies. The following tasks have been performed: <ul style="list-style-type: none"> <li>• Collection of Data and Conduction of Field Investigations</li> <li>• Intersection Exhibits</li> <li>• Traffic signal &amp; Multi-Way Stop control Warrant Analysis</li> <li>• Photo Album</li> <li>• Recommendations</li> <li>• Study Report</li> </ul>	<b>ETSI</b>	<b>81.7%</b>
<b>FC 16260 - TRAFFIC COUNT AND MODELING PROJECTIONS FOR 20-YRS FOR SCHEMATICS / SUB</b>		
C&M has completed their traffic projects and has submitted all data. <b>This task is now complete.</b>	<b>C&amp;M</b>	<b>90.8%</b>

**Supplemental #1 to Work Authorization #1 – Revised Scope of Work**

<b>FC 10206 - FC 10206 – DETERMINE LOCAL COSTS vs STATE COSTS / FEASIBILITY STUDY and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
<b>Supplemental #1 to Work Authorization #1 revises the scope of work and removes this scope.</b>	<b>L&amp;G</b>	<b>100%</b>

<b>FC 10211 - PRELIMINARY ENGINEERING</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work to include this scope.</b></p> <p>L&amp;G has developed several cost breakdowns for Pct. #1 and have had several meetings with TxDOT and the MPO to verify the approximate totals based on the preliminary schematics and schedule of work. This work is ongoing on a monthly basis and updated as the schematics continue to be worked on.</p>	<b>L&amp;G</b>	<b>38%</b>
<b>FC 11005 – SCHEMATIC FOR OUTFALLS</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work because of the increase in outfalls.</b></p> <p>L&amp;G has performed the following for the nine outfalls on the project:</p> <ul style="list-style-type: none"> <li>• developed chains (horizontal alignments) along all nine (9) outfalls</li> <li>• LIDAR information has been generated for all nine outfalls based on shape files.</li> <li>• Preliminary schematics for all outfalls</li> </ul> <p>L&amp;G has scheduled all outfalls for data collection via drone in order to check validity of LIDAR information as well as updating visual imagery.</p>	<b>L&amp;G</b>	<b>18%</b>
<b>FC 15007 – SUB-SURFACE UTILTIY ENGINEERING (SUE) 25 POT HOLES / MILE (ROADWAY AND OUTFALLS)</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 15008 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY AND 9 OUTFALLS</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16403 – PROJECT MANAGEMENT</b>		
<p><b>Supplemental #1 to Work Authorization #1 revises the scope of work.</b></p> <p>Contracts have been developed with all the subcontractors and the County. Several meetings with layouts have been held with City of Edcouch, TxDOT, Hidalgo County Pct #3 and HCDD#1.</p>	<b>L&amp;G</b>	<b>35%</b>

Should you have any questions or require additional information, please do not hesitate to give me or Project Manager, Carlos Peralez, P.E. a call at (956) 585-1909.

Sincerely,



Carlos Peralez, P.E.  
Project Manager

For: